

## SAMPLING

### ABBOT MILLS - WESTFORD, MASSACHUSETTS

The project consisted of a preliminary evaluation and report on the structural systems property for the possible conversion of the facility to residential apartments and other ancillary uses. The complex was originally used as a woolen mill and at the time of the evaluation was owned and occupied by a printing press operation.

### ADDEN BUILDING - LOWELL, MASSACHUSETTS

A structural evaluation was performed to determine the reuse of this six (6) story mill building with only a partial basement. The building's construction is typical for a structure of its age and location in Massachusetts.

### BAKER CHOCOLATE LOFTS - DORCHESTER, MASSACHUSETTS

The project consists of the adaptive reuse of the historic former Walter Baker Chocolate Factory. It consists of the renovation of the historic mill building into modern loft-style units while maintaining the historic nature of the building.

### BOOTT COTTON MILLS - LOWELL, MASSACHUSETTS

We were the consulting engineer for the stabilization of the Clock Tower at this Mill complex. We also consulted on many miscellaneous structural issues at the request of the Architect and Contractor.

### BRICK MILL PLACE - TAUNTON, MASSACHUSETTS

A structural evaluation was performed to determine the reuse of this two (2) story mill building typical for this area of Massachusetts. There are two portions to the structure – an east and a west half. The exterior wall construction of both portions consists of unreinforced masonry bearing walls. The majority of the interior framing is wood and steel columns, wood girders, wood trusses, and wood floor decking. At the time of the evaluation, the building was unoccupied and previously used for manufacturing.

### CHARLESTON LOFTS - EVERETT, MASSACHUSETTS

This project consisted of the design and management of the renovation of the existing four (4) story mill brick "Charleston Chew" candy factory for conversion into 250 loft-style condominiums. A new one-story floor of penthouses was also added on top of the existing 4-story building.

### COURT SQUARE PRESS BUILDING - SOUTH BOSTON, MASSACHUSETTS

Multiple Chapter 34 structural evaluations were performed for both the potential owners and the present owners. Ultimately, this building involved renovations, change of use and additions to the turn-of-the century Type 3 construction printing press mill building. The building is erected and marketed as market-rate condominiums.

### 190 EVERETT STREET (CHELSEA BRICKYARD) - CHELSEA, MASSACHUSETTS

This site consisted of six structures constructed in 1908 of wood timber and exterior brick bearing wall. The development of the site required the removal of one structure and future renovation to the others. The existing main mill building was to be renovated and prepared for today's market. Our work involved design of a new steel beam, joist and deck, roof structure with provision for new HVAC equipment. The perimeter bearing walls required enhancement by design of a backup structural frame to conform to today's building code wind force design requirements. The final major redesign was to address the existing floor structure by repair and supplement framing to increase the live load capacity.



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### HAMILTON MANUFACTURING COMPANY - LOWELL, MASSACHUSETTS

A structural evaluation was performed to determine the reuse of the existing three (3) story mill building with a full basement typical for this area of Massachusetts.

### HARVARD MILLS - WAKEFIELD, MASSACHUSETTS

Analyze the floor structure of this renovated four (4) story mill building for office live loads, file storage and roof top equipment load. Design reinforcement and repairs to cracked timbers. Also design and detailed new one story link building to connect the two wings of the building.

### LIBRARY LOFTS - CHELSEA, MASSACHUSETTS

A Chapter 34 structural evaluation was performed to determine the reuse of the existing three (3) story mill building typical for this area of Massachusetts into new residential units. There are two portions to the structure – an east and west half. They are connected by a three (3) story corridor of similar construction. Between the buildings there is also a one (1) story loading dock, and to the east of the building, there is an attached one (1) story structure. The focus of our report was on the three (3) story portions of the buildings, which are the areas that are proposed for renovation. The exterior wall construction consists of unreinforced masonry bearing walls. The majority of the interior framing is wood columns and brick piers, wood beams, and wood floor decking.

### MASSACHUSETTS MILLS - LOWELL, MASSACHUSETTS

Structural design for the conversion of the existing industrial mills into housing. These buildings were sanctioned by the Historical Registry. Between the two phases of renovations, these former textile mills were transformed into 281 one, two, and three bedroom units. Amenities include a separate building housing a community room suitable for functions with an exercise room on the second floor. An outdoor swimming pool has also been added. Structurally, the textile mills generally comprise heavy timber and heavy wood decking floor and roof framing supported on brick masonry bearing/shear walls.

### MASSACHUSETTS MILLS - LOWELL, MASSACHUSETTS

Performed an existing conditions survey for 3 buildings - Napping Building (10 units), Mill Building #3 (98 units), and Power Plant Building (55 units). We then conducted a Chapter 34 review as required by the Massachusetts State Building Code and concluded the project with the schematic design.

### RENAISSANCE ON THE RIVER (LAWRENCE MILLS) - LOWELL, MASSACHUSETTS

The conversion of this historic mill complex consisted of renovating Buildings 16, 17 and 18 (each 3-stories) and Building 8 and 9 (each 6-stories). The original buildings are of mill-type construction, i.e., heavy timber beams and posts, tongue and groove wood planking, and exterior brick masonry bearing walls.



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